MapDigit

Guidebee Navigator User Manual

On Java ME platform

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Guidebee Biz.

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ISSUE/AMENDMENT STATUS

Issue	Date	Description	Author
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TABLE OF CONTENTS

ISSUE/AMENDMENT STATUS **2**

OVERVIEW OF GUIDEBEE NAVIGATOR **5**

TOUCH SCREEN AND KEY MAPPING **6**

MAIN MENU **7**

MAP 7

GPS 7

SEARCH 7

GET DIRECTION 7

FAVORITES 7

MESSENGER 7

MAP **8**

MAP SETTINGS 8

ABOUT 8

ZOOM FULL 9

GPS **9**

MY LOCATION 9

DEVICE SETTINGS 9

COMPASS 9

TRACKING POSITION 10

ALWAYS SHOW POSITION 10

SEARCH **10**

FIND ADDRESS 10

LOCAL SEARCH 11

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IP SEARCH & LATITUDE SEARCH 11

GET DIRECTION 12

FAVORITES 14

MESSENGER 15

CONTEXT MENU 16

STORED LOCAL MAP 16

GUIDEBEE (MAPDIGIT) GIS ENGINE API 17

GRAPHICS 2D API 17

GIS ENGINE API 17

LOCATION API 17

NAVIGATION API 17

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OVERVIEW OF GUIDEBEE NAVIGATOR

Guidebee Navigator is navigation software on mobile device, it has following features:

- Support world map, it doesn't restrict to any specific region, if only you have network connection, it will show the map where you are.
- Multiple map type selection, -- Microsoft Bing map, Satellite map, Nokia map, Yahoo map, MapABC China map or any custom map you like.
- Internal GPS or Bluetooth GPS support.
- Get my location, it will first find your ISP's location and if GPS is avaiable, if shows your current location.
- GPS Compass, it displays satellite signal, Azimuth, speed meters etc.
- Search includes search a business, street name, local search, search by IP address, and search by latitude, longitude pair.
- Get direction, multiple waypoint or search from current location etc.
- Turn by turn voice navigation. With GPS Guidebee navigation provides turn by turn navigation and if you miss your turn, it automatically finds a new route to your destination.
- Favorites point of interest managment; you can add /modify /delete point of interest of your own on the map.
- Microsoft MSN messenger integrated, Guidebee navigation also includes a useful MSN client which allows talk to your friends with your MSN messenger account. Finally it'll provide similar function as Google latitude; you can track/ask for your friend's current location or send a message to him/her.

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TOUCH SCREEN AND KEY MAPPING

Following is a typical mobile phone layout.

Guidebee Navigator support both touch screen and key board. If you mobile support touch screen, use your stylus directly click on the screen to move the map, zoom in, zoom out and select a menu item.

With key board, left soft button and the right soft button are used select the command above the buttons, for instance, press the left soft button opens the main menu. The middle direction keys (Up, Down, Left, Right) can be used to pan the map or used to toggle between buttons, menu items or textbox, when in the main map view (left picture), the number keys are defines as below:

Number key 1: Change the view to Navigation View.

Number key 2, 4, 6, and 8: move the map up, left, right and down.

Number key 5: bring up the context menu. Same effect as long press on the screen.

Number key 7, 9: when there's route, move backward or forward of each steps along the route.

Key * Map zoom in and Key # is used to Zoom out the map.

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MAIN MENU

MAP

Map menu include zoom the full to the smallest world map to see where current location is on the world map. And select some map settings like language, map type etc.

GPS

GPS menu selects internal GPS or external Bluetooth GPS device, view current satellites signal strength, and go to current GPS location etc.

SEARCH

Search menu provide address search based on streets name, business name, IP address and latitude, longitude pair.

GET DIRECTION

Get Direction menu provides function to find route among multiple waypoints, waypoints can use newly searched addresses or saved favorites locations or current location as start point or middle point etc. display details route information and provide voice navigation.

FAVORITES

Favorites allow user to add, modify or delete some point of interests.

MESSENGER

A useful MSN messenger client allows you to login MSN and chat with your online friends.

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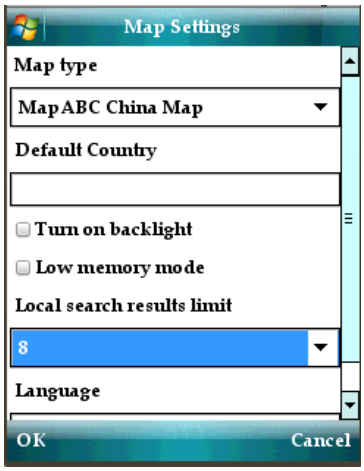
MAP

MAP SETTINGS



Map Type selection, Guidebee Navigator support several map types:

Microsoft Bing Map, Microsoft Satellite Map, Microsoft China Map.

Yahoo Map, Nokia Ovi Map, Map ABC China map and OpenStreetMap etc.

Default Country allow you to specify a default country for searching address, normally you can keep it empty and the search engine will figure it out where you are. But if you want to only search in a specific country, put the country name here.

Turn on the backlight, if this is checked, the backlight will be always on, it's useful when navigation but it consumes battery quicker, so it's better to have your car charger.

Low Memory mode, the application assumes your device has 2Mb memory, for some lower end handset whose memory is low, check this box ,the application will run in a low memory mode which requires less memory.

Local search results limit ,default is 8, which means it returns maximum 8 results for matched business name, more results requires more query times and more bandwidth usage.

Language selection, currently only English and Chinese are supported. When selected language changes, it'll take effect next time the application starts.

ABOUT

About shows some safety information to ask user to drive safely and follow local traffic rules, and provides some system information, like total memory and downloaded data size etc.

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ZOOM FULL

Zoom Full provides a convenient way to see where current location in the world map, for example, when you search for address and go to the find a address, the display map is shown as street level, zoom full provides quick way to see current location in the whole world map, press again resume previous map scale.

GPS

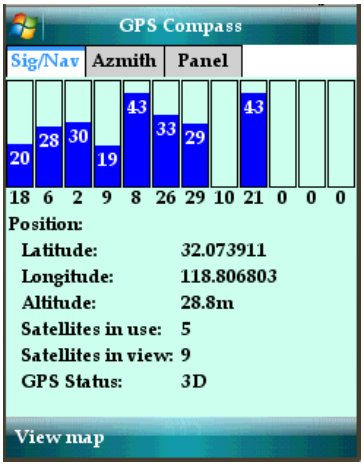
MY LOCATION

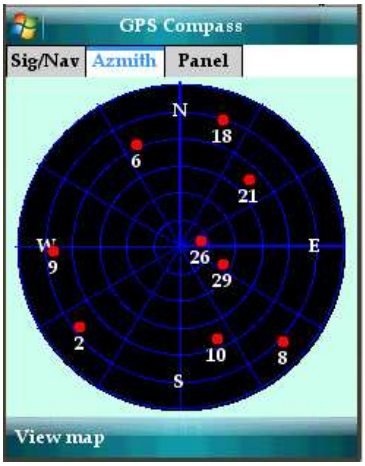
My location turns on GPS device if default use internal GPS device, otherwise it ask for a Bluetooth device. And if current there's a GPS fix, it centers map to current location, otherwise it'll first try to get your mobile carrier's location and wait for a valid GPS fix.

DEVICE SETTINGS

Device settings allow us to select a GPS device, default it uses internal GPS if there's one, you can use search device to choose an external Bluetooth device.

COMPASS





Sig/Nav view show current GPS satellites signal strength, how many satellites in view, in use etc, if there's no valid fix, the signal strength will be shown in red.

Azimuth view shows GPS satellite location in the space.

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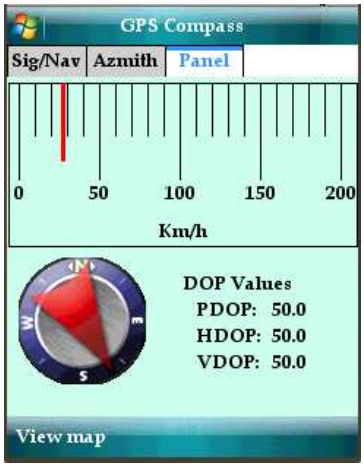


The last view display current speed, direction and DOP values of the GPS device.

TRACKING POSITION

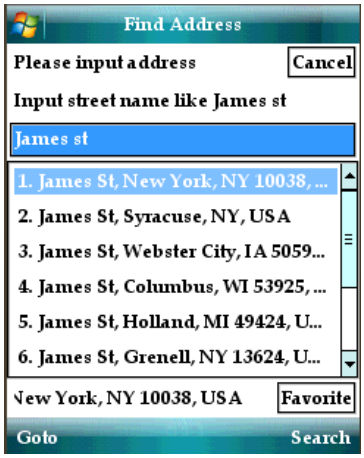
Tracking position turns on/off GPS device and periodically get GPS fix.

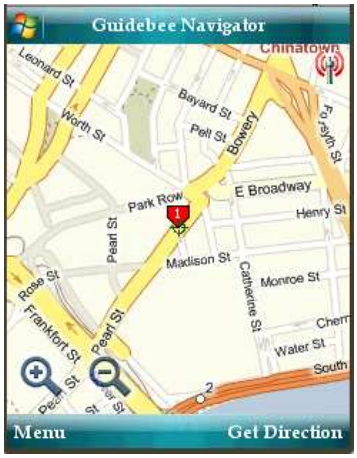
ALWAYS SHOW POSITION

If always show position is checked, the map will always centered based on current GPS location.

SEARCH

FIND ADDRESS


Find Address
Please input address
Cancel
Input street name like James st
James st
1. James St, New York, NY 10038, ...
2. James St, Syracuse, NY, USA
3. James St, Webster City, IA 5059...
4. James St, Columbus, WI 53925, ...
5. James St, Holland, MI 49424, U...
6. James St, Grenell, NY 13624, U...
New York, NY 10038, USA
Favorite
Goto
Search



Find address searches a address based on it street name, for example 13 James st, Perth etc

The search lists several matched address, the more detail of the input, the more accurate is the results.

And press "Favorite" will add it the favorite list.

Press "Goto" to center the map to the selected search result.

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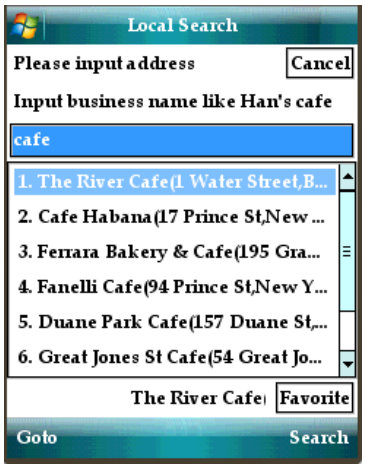
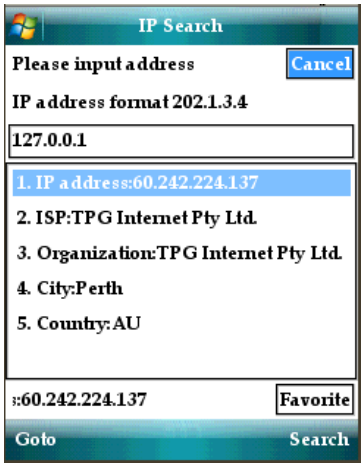
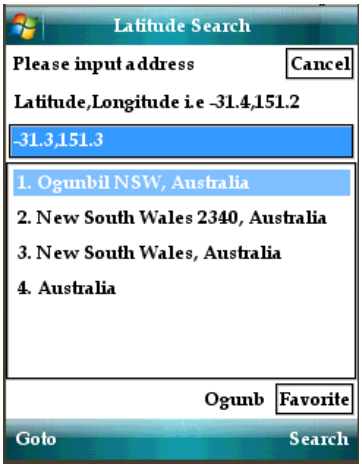
LOCAL SEARCH



Local search normal search a business within the screen area. You can search local restaurants, gas station, cafe etc nearby.

IP SEARCH & LATITUDE SEARCH





IP search and Latitude search allow user to search an address according to an IP address or latitude, longitude location.

If 127.0.0.1 is entered as the IP address, it gives your current carrier assigned IP address and its location.

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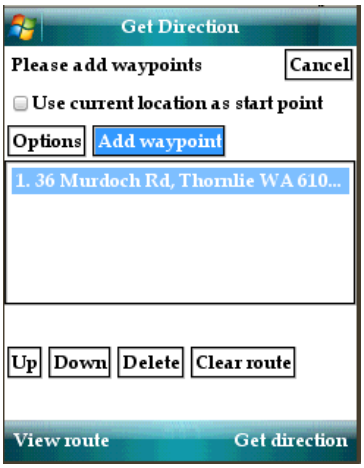
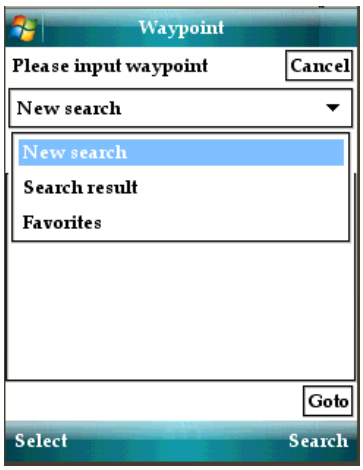
GET DIRECTION

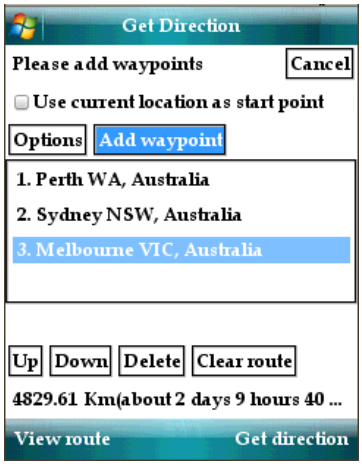


Get direction allows you to find route between waypoints. You can add, deleted, move up, move up the way points in the list.

If Use current location as start point, it use current GPS location or current map center as the start point depend on you have a valid GPS fix or not.

Option allows you to change routing options, like driving or walking etc.





Press way point button directs you the way point select view, way point can be a new search, previous searched results or from the favorite list.

Here, we selected “Perth”, “Sydney” and “Melbourne” as the way points. And press “Get Direction” the application queries the sever and return the results.

View route give a detail routing detail step by step.

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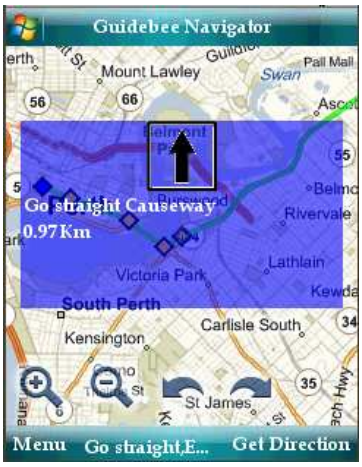
Press “View Map” the application show the whole route on the screen.



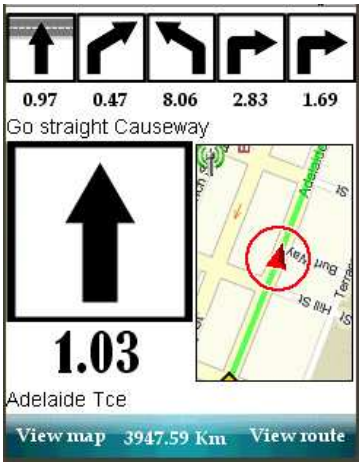
Use “prev”, or “Next” button to move from step to step. If you device support touch screen, click on one step it show detail information about that step

Start Navigation start voice turn by turn navigation, the top of the view displays the reaming turns, and number below the direction icon is the distance in km or mile.

Next instruction is shown in the top of the middle area. And then the large direction icon and distance to the next turn. Right is the current location on the map.

On the status bar at the bottom, in the middle shows total remaining distance.

You should always follow the local traffic rule and use this application just as a reference, the route information received may not be update to date and drive safely.



If you are the passanger, you can press view map to return the main map view.

The top left displays next turn and top right show current status of the GPS device, green means GPS fix is fine, red mean no fix.

Press the “Direction icon” at the top left to return the navigation view, if you phone doesn’t support touch screen, press Number key 1 to return to navigation view.

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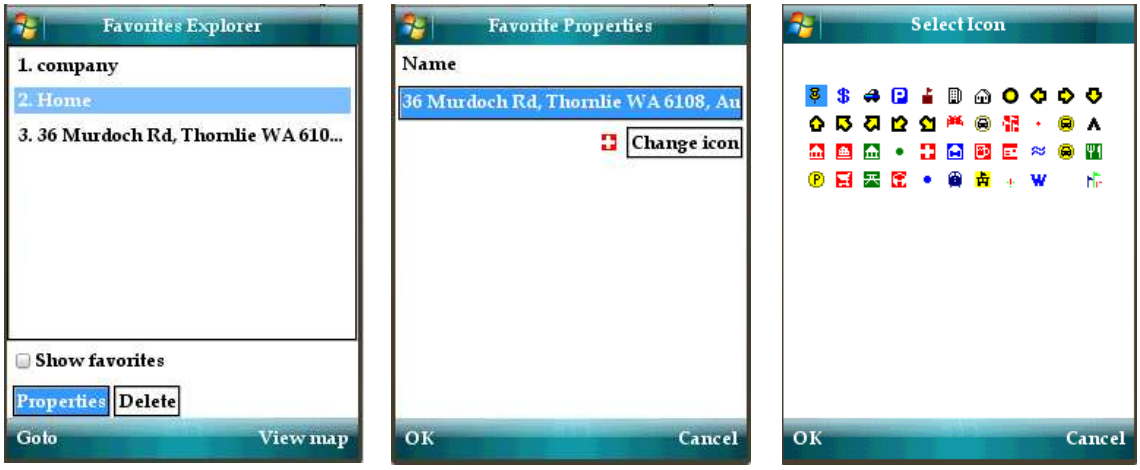
FAVORITES



Favorites allow you the manager your favorite point of interest, add, delete or modify information of the favorites.

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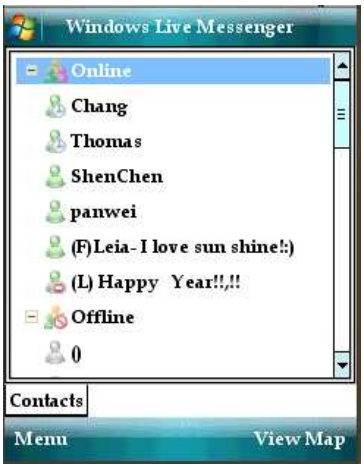
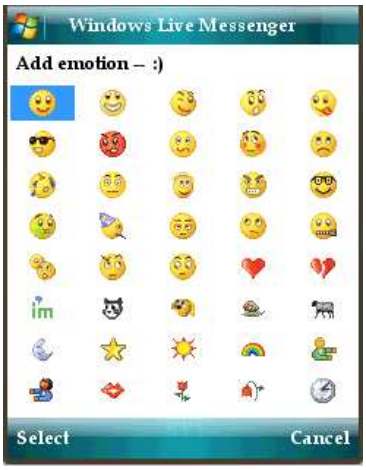
MESSENGER

Messenger is the lite MSN messenger client, its good enough to allow you chat with your friends.





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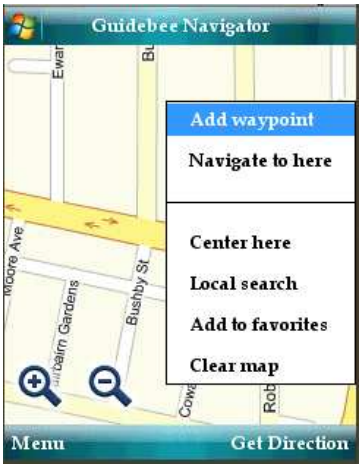
CONTEXT MENU



If you phone support touch screen, long press or press "Ok" button on the key board bring up the context menu, provides shortcut to add waypoint, navigation to here, center the map to give point, local search in current map area. Add to favorites and clear search information. Etc.

STORED LOCAL MAP

Guidebee Navigator is designed to work online, however it also support pre-downloaded map image and stores locally on the memory card ,for more information ,please contact James Shen at james.shen@guidebee.biz

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GUIDEBEE (MAPDIGIT) GIS ENGINE API

Guidebee Navigator is developed with MapDigit GIS Engine API, which includes

GRAPHICS 2D API

Mobile 2D graphics engine for J2ME platform (CLDC/MIDP). It handles basic shapes, paths, texts, outlined fonts and images in a uniform way.

GIS ENGINE API

It support online, offline, raster and vector map in the same package. And support finding an address and get a direction.

LOCATION API

Location API provides a common interface for GPS devices. With Guidebee location API, a Bluetooth GPS compass displays GPS data graphically

NAVIGATION API

A navigation engine on J2ME platform, it supports turn by turn instruction, rerouting, on road navigation mode, off road navigation mode and navigation simulation etc

Please visit http://www.mapdigit.com for detailed information.

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